

## **PERSONAL INFORMATION**

**Name:** Michael Chen, MD  
**Title:** Assistant Professor of Neurology, Neurosurgery and Radiology  
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## **EDUCATION**

### SPECIALTY TRAINING

1. Internship in Internal Medicine, Yale University School of Medicine, Yale New Haven Hospital, New Haven, Connecticut (2000-2001)
2. Residency in Neurology, Yale University School of Medicine, Yale New Haven Hospital, New Haven, Connecticut (2001-2003)
3. Fellowship in Clinical Neurophysiology, Yale University School of Medicine, Yale New Haven Hospital, New Haven, Connecticut (2003-2004)
4. Fellowship in Stroke and Cerebrovascular Disease, Harvard Medical School/Beth Israel Deaconess Medical Center, Boston, Massachusetts (2004-2005)
5. Fellowship in Interventional Neuroradiology, Columbia College of Physicians & Surgeons/New York Presbyterian Hospital, New York, New York (2005-2007)

### DEGREES

1. Bachelor of Science, Brown University, Providence, Rhode Island, 1991-1995
2. Doctor of Medicine, University of Hawaii John A. Burns School of Medicine, Honolulu, Hawaii 1995-1999

## **ACADEMIC APPOINTMENTS**

2007-present	Assistant Professor, Departments of Neurology, Neurosurgery and Radiology, Rush University Medical Center
2004-2005	Clinical Instructor, Department of Neurology, Harvard Medical School/Beth Israel Deaconess Medical Center

2003-2004 Clinical Instructor, Department of Neurology, Yale University  
School of Medicine, Yale New Haven Medical Center

### **CLINICAL APPOINTMENTS**

2007-present Staff Physician, Rush University Medical Center

### **CERTIFICATION AND LICENSURE**

Physician and Surgeon, State of Illinois 2007-present  
Diplomat, American Board of Psychiatry and Neurology 2004-2014

### **AWARDS**

American Academy of Neurology Resident Research Travel Scholarship (April 2001)  
American Heart Association Fellowship Scholarship (2004)  
Dana Foundation Grant for Cerebrovascular Disease Research (2004)

### **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

American Academy of Neurology  
Society for Neurointerventional Surgery-Senior Member  
Society for Vascular and Interventional Neurology-Senior Member

### **COMMITTEE AND ADMINISTRATIVE SERVICE**

#### Administrative

2010-present Rush University Interventional Services Executive Committee  
(ISEC)

#### Departmental

2007-present Coordinator of Rush Multidisciplinary Neurovascular Case  
Conference conducted weekly, Tuesday at 7:15AM (one  
hour/week), involving neurologists, neurosurgeons,  
neuroradiologists.

2010-present Coordinator of Rush Neuroendovascular Service Weekly Quality  
and Case Review Meeting, weekly at Friday at 7:15AM, (one  
hour/week) involving neurointerventionalists, radiology  
technicians, nurses and nurse practitioners.

#### Components:

1. Review upcoming weeks cases

2. Review prior weeks service issues and problems
3. Nursing and Radiology Technologist education
4. Protocol updates
5. Review complication prevention strategies

2010- present      Coordinator of Rush Neuroendovascular Quality Data Tracking Program in EPIC Electronic Medical Record

1. Real-time entry of quality measures during each case
2. Monthly data analysis to review trends

Course Director

November 4, 2009      Recurrent Stroke Prevention: An Update on Evidence and Opportunities in Ischemic Stroke or Transient Ischemic Attack. A National Stroke Association Grand Rounds Series. Rush Medical Center, Brainard Room 542

Resident Education

2007-present      Didactic lectures to neurosurgery residents on neuroendovascular surgery topics [4 hours per year]

2007-present      Neurosurgery Resident monthly neurovascular conference faculty [2 hours per month]

2007-present      Clinical instruction and supervision of rotating neurosurgery residents (cerebrovascular catheterization, diagnostic and interventional neuroangiography. (daily, all year)

2007-present      Clinical instruction and supervision of rotating neuroradiology fellows (cerebrovascular catheterization, diagnostic and interventional neuroangiography. (daily, all year)

Medical Student Education

2007-present      Preceptor, medical student (M3 and M4) subspecialty miniclerkships; core clinical clerkship in interventional neurology (2 week blocks, all year)

2009-present      Faculty Advisor for Rush Chapter of Asian Pacific American Medical Student Association

2010-present      Faculty Advisor for Rush M-1 Observership. Exposure to outpatient clinical practice. [1 hour every 2 weeks]  
G. Jones

2011-present Faculty Principal Investigator for 2011 Rush University Medical Center Dean's Office Summer Research Fellowship Award for Aashesh Verma titled, "Current Functional Outlook of Mechanical Endovascular Stroke Therapy"

#### Medical Student Research Projects Supervised

2008 Merchant M. "Endovascular recanalization of carotid terminus occlusions"

2009 Feldman L. "Oral contraceptive therapy and hormone replacement therapy in women with cerebral aneurysms"

#### Resident/Fellow Research Projects Supervised

2009 Lazzaro M. "Circle of willis anomalies and cerebral aneurysm rupture risk"

2010 Sawris N. "Modern clinical indications for diagnostic catheter cerebral angiography"

#### Medical School

2009-present Rush Annual Golf Tournament Committee Member  
Fundraising for Rush Medical, Nursing and Graduate School Scholarships

### **SCIENTIFIC AND SCHOLARLY ACTIVITIES**

#### AD-HOC REVIEWER

*Journal of Neurointerventional Surgery* – Reviewer: 2010-present

*Stroke*-Reviewer: 2007-present

*Neurosurgery*-Reviewer: 2006-present

#### EDITORIAL BOARD

*Frontiers in Endovascular & Interventional Neurology*-Associate Editor: 2010-present

#### INVITED ORAL PRESENTATIONS AT NATIONAL MEETINGS

Feldman L, Goldstein L, Chen M. Oral Contraceptive and Hormone Replacement Therapy in Women with Cerebral Aneurysms (Society for Neurointerventional Surgery Annual Meeting, San Diego, California 2010)

#### INVITED LECTURES

**Title:** Posterior Communicating Artery Aneurysms

**Date:** October 2008

**Type of talk:** Neuroophthamology CME Course

**Invited by:** Thomas Mizen, MD

**Location:** Chicago, Illinois

**Number of contact hours:** 1

**Number Attending:** 50

**Attendees:** Professionals: medical students, residents, fellows, attendings

**Title:** Stroke center development: outreach, research & education

**Date:** December 2010

**Type of talk:** Structural Heart Disease/Stroke Symposium at SCAI Fellows Course

**Invited by:** Ziyad Hijazi, MD

**Location:** Las Vegas, Nevada

**Number of contact hours:** 1

**Number Attending:** 200

**Attendees:** Professionals: residents, fellows, attendings

#### RUSH GRAND ROUNDS

**Title:** Mycotic Cerebral Aneurysms

**Date:** October 2008

**Type of talk:** Department of Internal Medicine Multidisciplinary Grand Rounds

**Invited by:** Stuart Levin, MD

**Location:** Chicago, Illinois

**Number of contact hours:** 1

**Number Attending:** 60

**Attendees:** Professionals: medical students, residents, fellows, attendings

**Title:** Spinal Vascular Anatomy, Pathology and Endovascular Treatment Options

**Date:** January 2009

**Type of talk:** Department of Neurosurgery Grand Rounds

**Invited by:** John O'Toole, MD

**Location:** Chicago, Illinois

**Number of contact hours:** 1

**Number Attending:** 20

**Attendees:** Professionals: medical students, residents, fellows, attendings

**Title:** Rationale and Controversy Behind Acute Endovascular Stroke Therapy

**Date:** January 2009

**Type of talk:** Department of Neurology Grand Rounds  
**Invited by:** Jennifer Goldman, MD  
**Location:** Chicago, Illinois  
**Number of contact hours:** 1  
**Number Attending:** 60  
**Attendees:** Professionals: medical students, residents, fellows, attendings

**Title:** Rationale and Controversy Behind Acute Endovascular Stroke Therapy  
**Date:** May 2009  
**Type of talk:** Department of Internal Medicine Multidisciplinary Grand Rounds  
**Invited by:** Stuart Levin, MD  
**Location:** Chicago, Illinois  
**Number of contact hours:** 1  
**Number Attending:** 60  
**Attendees:** Professionals: medical students, residents, fellows, attendings

**Title:** Unruptured Brain Aneurysms  
**Date:** May 2010  
**Type of talk:** Department of Neurology Grand Rounds  
**Invited by:** Jennifer Goldman, MD  
**Location:** Chicago, Illinois  
**Number of contact hours:** 1  
**Number Attending:** 60  
**Attendees:** Professionals: medical students, residents, fellows, attendings

#### VISITING GRAND ROUNDS

**Title:** Neuroendovascular Update  
**Date:** October 2007  
**Type of talk:** University of Chicago Department of Neurology Grand Rounds  
**Invited by:** Adil Javed, MD  
**Location:** Chicago, Illinois  
**Number of contact hours:** 1  
**Number Attending:** 50  
**Attendees:** Professionals: medical students, residents, fellows, attendings

**Title:** Stroke Prevention  
**Date:** January 2008  
**Type of talk:** Castle Medical Center Grand Rounds    Stroke Conferences  
**Invited by:** Martha Kaimana, CME Coordinator  
**Location:** Kailua, Hawaii  
**Number of contact hours:** 1  
**Number Attending:** 50  
**Attendees:** Professionals: medical students, residents, fellows, attendings

**Title:** Interventional Cases in Acute Stroke

**Date:** March 2009  
**Type of talk:** University of Kentucky Commonwealth Center of Excellence in Stroke  
Stroke Conferences  
**Invited by:** Michael R. Dobbs, M.D  
**Location:** Lexington, Kentucky  
**Number of contact hours:** 1  
**Number Attending:** 50  
**Attendees:** Professionals: medical students, residents, fellows, attendings

**Title:** Evidenced-based management of unruptured cerebral aneurysms  
**Date:** August 2009  
**Type of talk:** Castle Medical Center Grand Rounds  
**Invited by:** Martha Kaimana, CME Coordinator  
**Location:** Kailua, Hawaii  
**Number of contact hours:** 1  
**Number Attending:** 50  
**Attendees:** Professionals: medical students, residents, fellows, attendings

**Title:** Rationale and Controversy Behind Acute Endovascular Stroke Therapy  
**Date:** January 2010  
**Type of talk:** St. Mary's Hospital Grand Rounds  
**Invited by:** Lori Snell  
**Location:** Streator, Illinois  
**Number of contact hours:** 1  
**Number Attending:** 40  
**Attendees:** Professionals: medical students, residents, fellows, attendings

**Title:** Rationale and Controversy Behind Acute Endovascular Stroke Therapy  
**Date:** March 2010  
**Type of talk:** Holy Cross Hospital Grand Rounds  
**Invited by:** Leslie Tatara  
**Location:** Chicago, Illinois  
**Number of contact hours:** 1  
**Number Attending:** 50  
**Attendees:** Professionals: medical students, residents, fellows, attendings

**Title:** Rationale and Controversy Behind Acute Endovascular Stroke Therapy  
**Date:** May 2010  
**Type of talk:** Munster Community Hospital Stroke Symposium  
**Invited by:** Arvind Gandhi, MD  
**Location:** Chicago, Illinois  
**Number of contact hours:** 1  
**Number Attending:** 150  
**Attendees:** Professionals: medical students, residents, fellows, attendings

**Title:** Rationale and Controversy Behind Acute Endovascular Stroke Therapy

**Date:** September 2010  
**Type of talk:** University of Iowa Department of Neurology Grand Rounds  
**Invited by:** George Richerson, MD PhD  
**Location:** Iowa City, Iowa  
**Number of contact hours:** 1  
**Number Attending:** 40  
**Attendees:** Professionals: medical students, residents, fellows, attendings

**Title:** Effective Management of Cerebrovascular Emergencies  
**Date:** January 2011  
**Type of talk:** Saint Anthony Medical Center Grand Rounds  
**Invited by:** Karen Bonita Krause  
**Location:** Crown Point, Indiana  
**Number of contact hours:** 1  
**Number Attending:** 50  
**Attendees:** Professionals: medical students, residents, fellows, attendings

#### COMMUNITY EDUCATION

**Title:** Stroke Treatment and Prevention in Women  
**Date:** May 2010  
**Type of talk:** Community Educations  
**Invited by:** Elizabeth Lazerau  
**Location:** Chicago, Illinois  
**Number of contact hours:** 1  
**Number Attending:** 50  
**Attendees:** General public

**Title:** Prevention and Treatment of Stroke  
**Date:** October 5, 2010  
**Type of talk:** Community Education for Rush University Medical Center  
**Invited by:** Elizabeth Lazerau  
**Location:** Chicago, Illinois  
**Number of contact hours:** 1  
**Number Attending:** 50  
**Attendees:** General public

**Title:** Stroke Diagnosis, Prevention and Treatment  
**Date:** March 2, 2011  
**Type of talk:** Chinese American Service League & Rush University Medical Center  
**Invited by:** Xinqi Dong, MD  
**Location:** Chicago, Illinois  
**Number of contact hours:** 1  
**Number Attending:** 50  
**Attendees:** General public

**Title:** Endovascular Stroke Treatment Options

**Date:** May and June 2011

**Type of talk:** Chicago Fire Department and Emergency Medical Services Education

**Invited by:** Louis Hondros, DO

**Location:** Chicago, Illinois

**Number of contact hours:** 1

**Number Attending:** 50

**Attendees:** Chicago Firefighters, first responders and EMS.

## **RESEARCH**

2008-2009

Local Principal Investigator – International multi-center randomized trial

Title: TEAM (Trial of Endovascular Aneurysm Management) Safety and efficacy of endovascular treatment of unruptured intracranial aneurysms in the prevention of intracranial bleeding: a randomized comparison with indefinite deferral or treatment in 2002 patients followed for 10 years

2008-present

Local Principal Investigator – International multi-center randomized trial

Title: ARUBA (A Randomized Trial of Unruptured Brain Arteriovenous Malformations) The goal of the project is to test the null hypothesis that treatment, by means of interventional procedures, surgery, or radiotherapy offers no difference in the risk of death or symptomatic stroke, and no better functional outcome than does conservative management at five years from discovery of an unruptured brain arteriovenous malformation (BAVM).

Sponsor: NIH

Funding: NIH

2009-present

Principal Investigator – Retrospective and prospective case series

Title: Risk factors for aneurysm formation in women. To evaluate differences between women with and without cerebral aneurysms to identify a possible role for estrogen or the estrogen receptor in the pathogenesis of cerebral aneurysm formation.

Sponsor: Rush University Medical Center

Funding: None

2010-present

Co-Investigator – Randomized prospective interventional trial

Title: SOLITAIRE™ FR With the Intention For Thrombectomy (SWIFT) Study.

Goal is to demonstrate substantial equivalence of the SOLITAIRE™ FR

Revascularization Device (SOLITAIRE™ Device) with a legally marketed device,

MERCI Retrieval System® (MERCIR® Device). The study will demonstrate safety and

efficacy of the SOLITAIRE™ Device in subjects requiring mechanical thrombectomy diagnosed with acute ischemic stroke.

Sponsor: eV3

Funding: eV3

2010-present

Principal Investigator – Retrospective and prospective case series

Title: Modern clinical indications and cost-effectiveness of catheter cerebral angiography

Goal is to describe and categorize the modern role of catheter cerebral angiography in comparison to the most current noninvasive vascular imaging modalities with regards to clinical indications and cost.

Sponsor: Rush University Medical Center

Funding: None

### PUBLICATIONS (PEER REVIEWED)

1. Fitzpatrick D, **Chen M**, Meyers PM. Horizontal Neuroform Stent Deployment for a Ruptured Basilar Terminus Aneurysm via the Posterior Communicating Artery. *J Vasc Interv Radiol* 2006 17: 1687-1691.
2. Prabhakaran S, **Chen M**, Choi JH, Mangla S, Lavine S, Pile-Spellman J, Meyers PM, Chong JY. Major Neurologic Improvement following Endovascular Recanalization Therapy for Acute Ischemic Stroke. *Cerebrovasc Dis* 2008;25:401-407.
3. **Chen M**, Nguyen T. Emerging Subspecialties in Neurology: Endovascular Surgical Neuroradiology. *Neurology* 2008;70:e21-24
4. Prabhakaran S, Warrior L, Wells KR, Jhaveri MD, **Chen M**, Lopes DK. The Utility of Quantitative Magnetic Resonance Angiography in the Assessment of Intracranial In-Stent Stenosis. *Stroke* 2009;40: 991-993
5. Lee VH, Samuels S, Herbst TJ, Gallegos M, Cochran EJ, **Chen M**, Prabhakaran S, Lopes DK. Histopathologic Description of Wingspan Stent in Acute Ischemic Stroke. *Neurocrit Care*. 2009 11:377–380
6. Lazzaro M, **Chen M**. Interventional Management of Intracranial Stenosis *The Open Atherosclerosis & Thrombosis Journal* 2010;3:24-34
7. **Chen M**. Mechanical recanalization of acute carotid terminus occlusion from traumatic arterial dissection. *Front Neurol* 2010 Nov 4;1:123.
8. **Chen M**, Goldstein-Smith L. Endovascular Rescue of a misshapen intracranial stent: report of two cases. *J NeuroIntervent Surg* 2011;3(1);25-26.

9. **Chen M**, Ouyang B, Goldstein-Smith L, Feldman L. Oral Contraceptive and Hormone Replacement Therapy in Women with Cerebral Aneurysms. *J NeuroIntervent Surg* 2011;3:163-166 [EDITOR'S CHOICE DESIGNATION]
10. Lazzaro MA, **Chen M**, Christoforidis G, Mohammad Y. The impact of diabetes on the extent of pial collaterals in acute ischemic stroke patients. *J NeuroIntervent Surg* (2011). doi:10.1136/jnis.2010.004507 *In press*
11. Lazzaro, MA, Ouyang B, **Chen M**. The role of circle of Willis anomalies in cerebral aneurysm rupture. *J NeuroIntervent Surg* (2011). doi:10.1136/jnis.2010.004358
12. Prabhakaran S, Ward E, John S, Lopes DK, **Chen M**, Temes R, Mohammed Y, Lee VH, Bleck TP. Transfer delay is a major factor limiting the use of intra-arterial treatment in acute ischemic stroke. *Stroke* (2011) Apr 28.

#### CONSORTIUM PUBLICATIONS

1. Abou-Chebl A, Lin R, Hussain M, Jovin TG, Levy EI, Liebeskind DS, Yoo AJ, Hsu DP, Rymer MM, Tayal AH, Zaidat OO, Natarajan SK, Nogueira RG, Nanda A, Tian M, Hao Qing, Kalia JS, Nguyen TN, **Chen M**, Gupta R. Conscious sedation versus general anesthesia during endovascular therapy for acute anterior circulation stroke: Preliminary results from a retrospective multi-center study. *Stroke*. 2010;41:1175-1179
2. Gupta R, Tayal A, Levy E, Cheng-Ching E, Rai A, Liebeskind D, Yoo A, Hsu D, Rymer M, Zaidat O, Lin R, Natarajan S, Nogueira R, Nanda A, Tian M, Hao Q, Abou-Chebl A, Kalia J, Nguyen T, **Chen M**, Jovin T. Intra-arterial thrombolysis or Stent Placement during Endovascular Treatment for Acute Ischemic Stroke Leads to the Highest Recanalization Rate: Results of a Multi-center Retrospective Study. *Neurosurgery*; 2011 Feb 16

#### BOOK CHAPTERS/REVIEW ARTICLES

1. **Chen M**, Caplan L. Intracranial dissections. *Front Neurol Neurosci* 2005;20:160-173.
2. **Chen M**, Selim M. Multimodal effects of available drugs for ischemic stroke. *Drugs Today*. 2005 Jun;41(6):401-9.
3. **Chen M**, Caplan LR. Neurology case studies: cerebrovascular disease *Neurol Clin*. 2006 May;24(2):181-98.
4. **Chen M**, Caplan LR. Which arteriovenous malformations should be given ablative treatment? *Nature Clin Neurol* 2006 Jan 2(1) 2-3.

5. **Chen M.** Stroke as a Complication of Medical Disease *Semin Neurol.* 2009 Apr;29(2):154-62.
6. **Chen M,** Caplan LR. Chapter: Laboratory and other ancillary testing in intracerebral hemorrhage. Carhuapoma JR, Mayer S, Hanley DF. *Intracerebral Hemorrhage.* Cambridge University Press. 2009
7. Rosenberg N, **Chen M,** Prabhakaran S. New Devices for Treating Acute Ischemic Stroke. *Recent Pat CNS Drug Discov* 2010 June;5(2):118-134
8. **Chen M.** Acute Endovascular Stroke Therapy. *Am J Ther* 2010 Jun 9 [Epub ahead of print]
9. **Chen M.** Ischemic Stroke Treatment-IA. *Handbook of Stroke and Neurocritical Care.* Editor: V. Lee (*In press*)
10. **Chen M.** Cerebral Catheter Angiography. *Handbook of Stroke and Neurocritical Care.* Editor: V. Lee (*In press*)
11. **Chen M.** Interventional Neurology: Recent advances and new applications. *US Neurology.* (*In press*)

#### PUBLISHED ABSTRACTS

1. Chen M, Chang C, Mirski, M. Increased Incidence of Primary and t-PA-related Hemorrhagic Stroke in the Hawaii Population. (North American Stroke Meeting, Aspen, Colorado, 1999)
2. Chen M, Hendel M, Kresowik T, Brass LM. Deep Venous Thrombosis in Acute Ischemic Stroke: The National Stroke Project. (American Academy of Neurology Annual Meeting, Honolulu, Hawaii, 2003)
3. Chen M, Garcia L, Savitz S, Caplan LR, Leary MC Predictors of Hemodynamic Instability during Carotid Artery Angioplasty and Stenting (International Stroke Conference, New Orleans, Louisiana, 2005)
4. Chen M, Choi J, Chong J, Pile-Spellman J. Intraarterial Verapamil and Low Dose Tissue Plasminogen Activator for Acute Ischemic Stroke (Joint Meeting of the AANS/CNS Cerebrovascular Section and American Society of Interventional and Therapeutic Neuroradiology, Orlando, Florida 2006)
5. Chen M, Parra A, Mayer S, Meyers PM. Dual Antiplatelet Therapy in Aneurysmal Subarachnoid Hemorrhage (Joint Meeting of the AANS/CNS

Cerebrovascular Section and American Society of Interventional and Therapeutic Neuroradiology, Orlando, Florida 2006)

6. Chen M, Goldstein L. Endovascular Rescue of a Misshapen Intracranial Stent: Report of Two Cases *J NeuroIntervent Surg* 2010;**2**:A46-A47  
doi:10.1136/jnis.2010.003251.54
7. Lazzaro MA, Ouyang B, Chen M. Circle of Willis anomalies are associated with an increased risk of aneurysm rupture *J NeuroIntervent Surg* 2010;**2**:A33  
doi:10.1136/jnis.2010.003251.20
8. Feldman L, Goldstein L, Chen M. Oral Contraceptive and Hormone Replacement Therapy in Women with Cerebral Aneurysms *J NeuroIntervent Surg* 2010;**2**:A13-A14 doi:10.1136/jnis.2010.003244.29
9. Wells K, Kapadia S, Cantrell B, Keigher K, Lopes D, Chen M. Initial experience with a 'timeout' designed for neuroendovascular procedures *J NeuroIntervent Surg* 2010;**2**:A26-A27 doi:10.1136/jnis.2010.003251.3

#### INVITED ARTICLES, EDITORIALS, REVIEWS, LETTERS & MEDIA RELATIONS

1. "Do I Feel Lucky? Absolutely. New tools used to combat blood clots at Rush helped Chris Concannon to live and talk another day" - Chicago Sun-Times, Health, Monifa Thomas, April 8, 2008
2. "How to handle tangled blood vessels in the brain?" - Chicago Sun-Times, Health, Monifa Thomas, May 11, 2010
3. "Hormone Use in Women May Protect Against Aneurysms" – Medscape Medical News, Pauline Anderson, August 17, 2010
4. "Oral Contraceptive and Hormone Replacement Therapy in Women with Cerebral Aneurysms" – ABC News, Channel 7 Health Beat, Sylvia Perez, Medical Reporter, August 25, 2010
5. "Estrogen Stabilization May Play Protective Role for Women at Risk for Brain Aneurysms" – Internal Medicine News, Amy Rothman Schonfeld, Contributing Writer, September 2010.
6. "Can Hormone Therapy or the Pill Prevent Brain Aneurysms?" – US News and World Report Health Day, May 5, 2011